

Abstract

A system of inclined geosynchronous satellite orbits has a service area defined on a surface of the earth. The service area has elevation
5 angles greater than a predetermined minimum elevation angle from the horizon. A satellite has an orbit with respect to the earth having a sky track when viewed from within said service area. An operating arc is defined by a subset of points on the sky track
10 within the service area. The satellites operate consecutively on the operating arc.